CLAIM LISTING

- (Original) A bitstream for configuring a PLD with an encrypted design comprising:

 a plurality of unencrypted words for controlling loading of configuration data; and
 a plurality of encrypted words specifying the encrypted design.
- 2. (Original) The bitstream of Claim 1 wherein one of the unencrypted words comprises a key address for locating a decryption key for decrypting the encrypted words.
- 3. (Original) The bitstream of Claim 1 wherein one of the unencrypted words comprises an address register for loading the first word of the encrypted design.
- 4. (Original) The bitstream of Claim 1 further comprising a plurality of encrypted words for controlling loading of configuration data, wherein one of the encrypted words for controlling loading of configuration data specifies an address for loading a word of the encrypted design.
- 5. (Original) The bitstream of Claim 4 wherein another of the encrypted words for controlling loading of configuration data specifies an address for loading a word of the encrypted design.
- 6. (Original) The bitstream of Claim 1 wherein the unencrypted words for controlling loading of configuration data include a cyclic redundancy checksum for comparison to a cyclic redundancy checksum calculated by the PLD.
- 7. (Original) The bitstream of Claim 6 wherein the cyclic redundancy checksum in the bitstream is calculated on configuration data before the configuration data has been encrypted.

X-805-8 US PATENT 09/724,734 Conf. No. 7773

8. (Original) The bitstream of Claim 6 wherein the cyclic redundancy checksum in the bitstream is calculated on configuration data after the configuration data has been encrypted.

- 9. (Original) A bitstream for configuring a plurality of PLDs comprising:
- a first plurality of words for controlling loading of configuration data into a first PLD; and
- a first plurality of words specifying a design for loading into the first PLD a second plurality of words for controlling loading of configuration data into a second PLD; and

a second plurality of words specifying a design for loading into the second PLD; wherein at least one of the first and second pluralities of words specifying a design is encrypted.

- 10. (Original) The bitstream of Claim 9 wherein the first plurality of words specifying a design for loading into the first PLD is unencrypted and the second plurality of words specifying a design for loading into the second PLD is encrypted.
- 11. (Original) The bitstream of Claim 9 wherein the first plurality of words specifying a design for loading into the first PLD is encrypted and the second plurality of words specifying a design for loading into the second PLD is unencrypted.
- 12. (Original) The bitstream of Claim 9 wherein both of the first and second pluralities of words specifying a design are encrypted.
- 13. (Original) The bitstream of Claim 12 wherein the first plurality of words specifying a design for loading into the first PLD are encrypted with a first key and the second plurality of words specifying a design for loading into the second PLD are encrypted with a second key.

X-805-8 US PATENT 09/724,734 Conf. No. 7773

14. (Original) The bitstream of Claim 1 wherein the plurality of encrypted words further specify an address into which the encrypted design is to be loaded.

- 15. (Original) The bitstream of Claim 1 wherein the plurality of unencrypted words for controlling loading of configuration data include a cipher block chaining initial value.
- 16. (Original) The bitstream of Claim 1 wherein the plurality of encrypted words specifying the encrypted design are loaded into a single group of successive addresses.
- 17. (Original) The bitstream of Claim 1 wherein the plurality of encrypted words specifying the encrypted design are loaded into a plurality of groups of successive addresses.
- 18. (Original) A method of generating a bitstream with encrypted design data comprising the steps of:

forming a cipher block chaining initial value comprising a starting address for loading a design into a PLD;

combining the cipher block chaining initial value with a first word of design data to form a first combined word;

encrypting the first combined word to form a first word of encrypted data; combining the first word of encrypted data with a second word of design data to form a second combined word; and

encrypting the second combined word to form a second word of encrypted data.

- 19. (Original) The method of Claim 18 wherein subsequent steps of combining and encrypting are repeated until all design data has been encrypted.
- 20. (Original) The method of Claim 18 wherein the cipher block chaining initial value comprises further bits not part of the starting address for loading a design into a PLD.